

2003 LMOP Project Expo



# **Warren County District Landfill Oxford, New Jersey**

Pollution Control Financing Authority  
Of Warren County

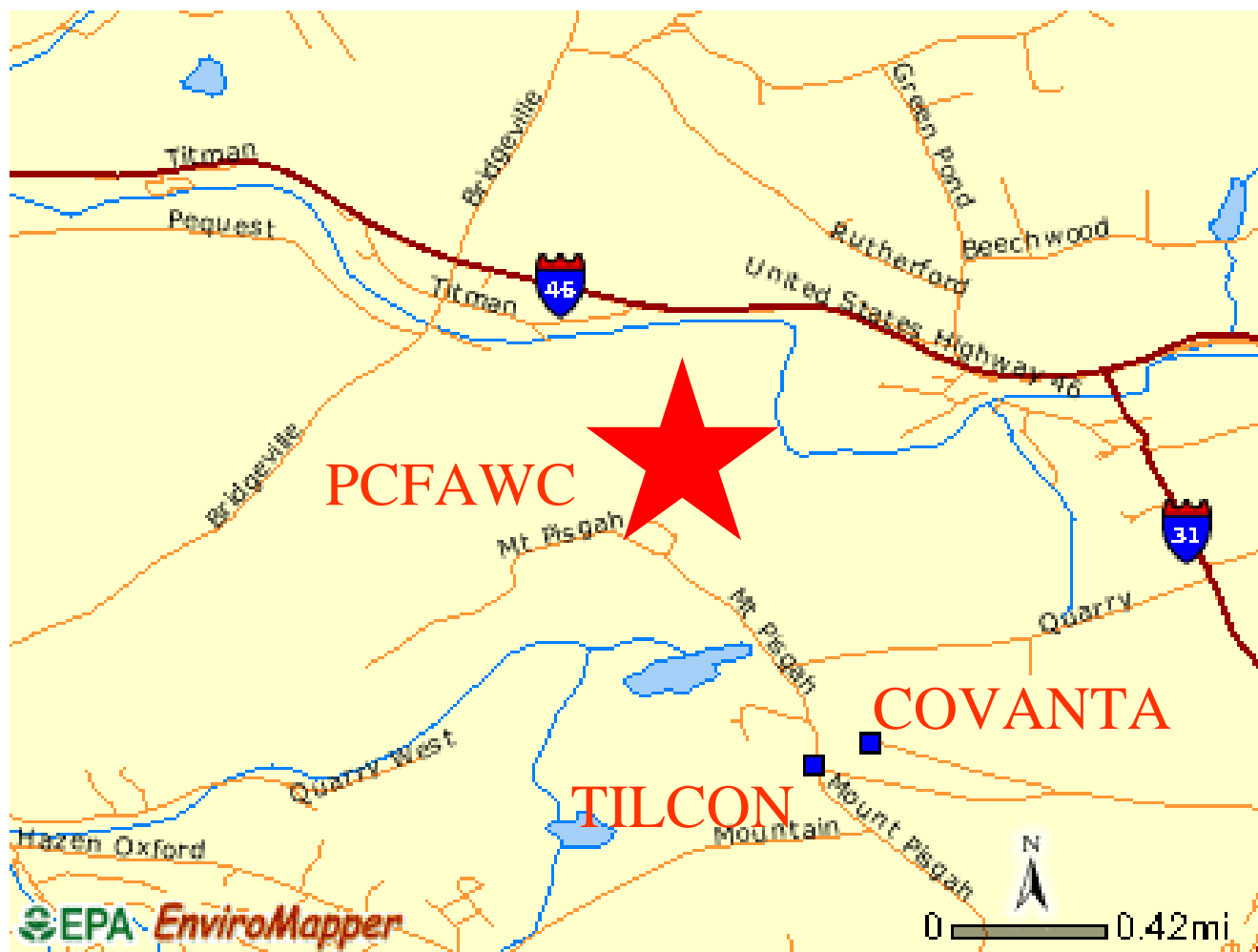
January 6, 2004  
Washington, DC

# Landfill Overview



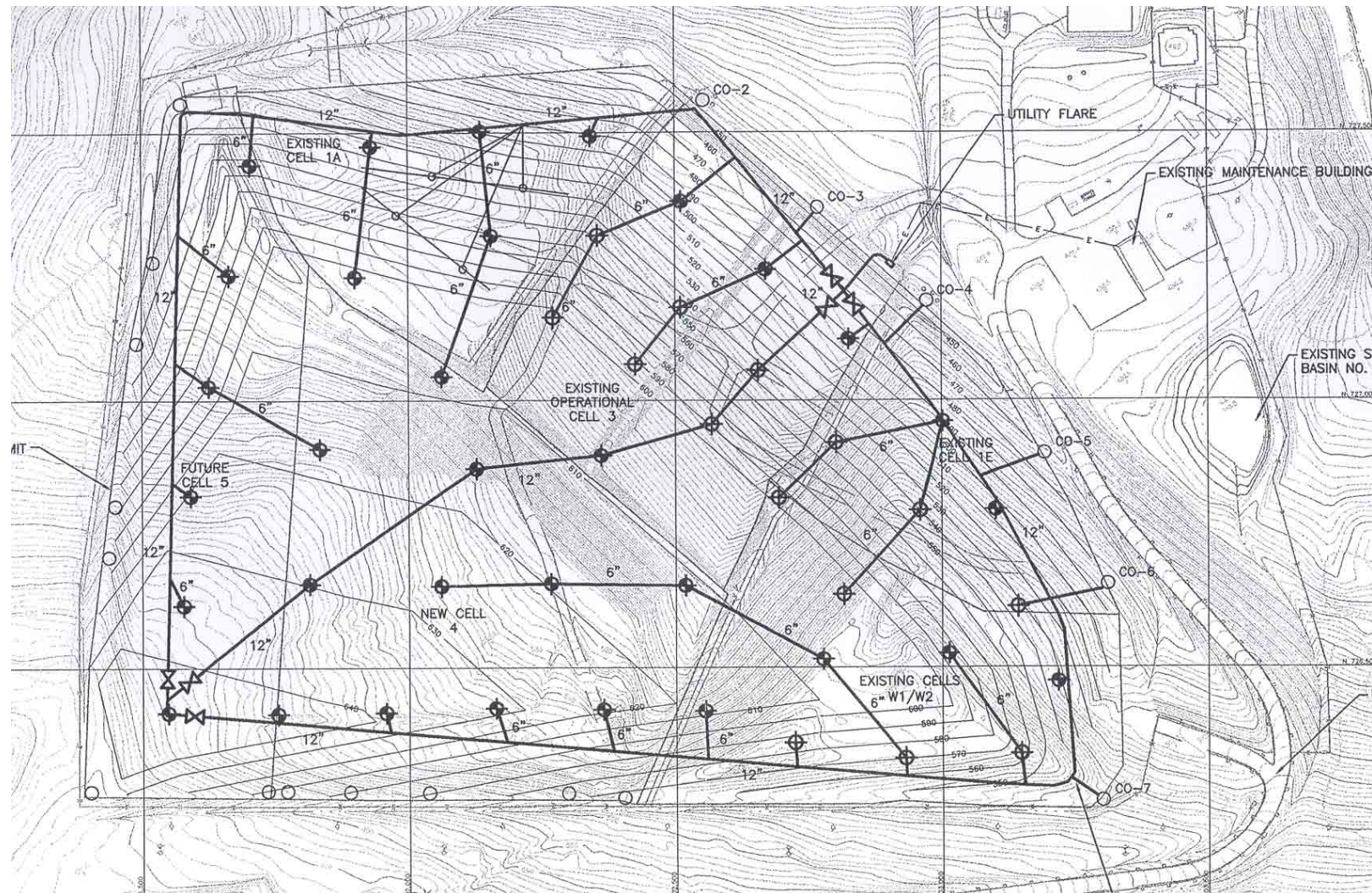
- Owner – Pollution Control Financing Authority of Warren County (PCFAWC)
- Open Year – 1990
- Closure Year – 2006 plus expansion
- Waste in Place – 2.3 million cubic yards
- Design Capacity – 3.0 million cubic yards
  - 4.5 million cubic yards w/ expansion
- Annual Acceptance – ~280,000 tons MSW
- Landfill Area – 45 acres
- Landfill Depth – 115 feet maximum

# Landfill Location Map





# Landfill Grading and Gas Collection Plan



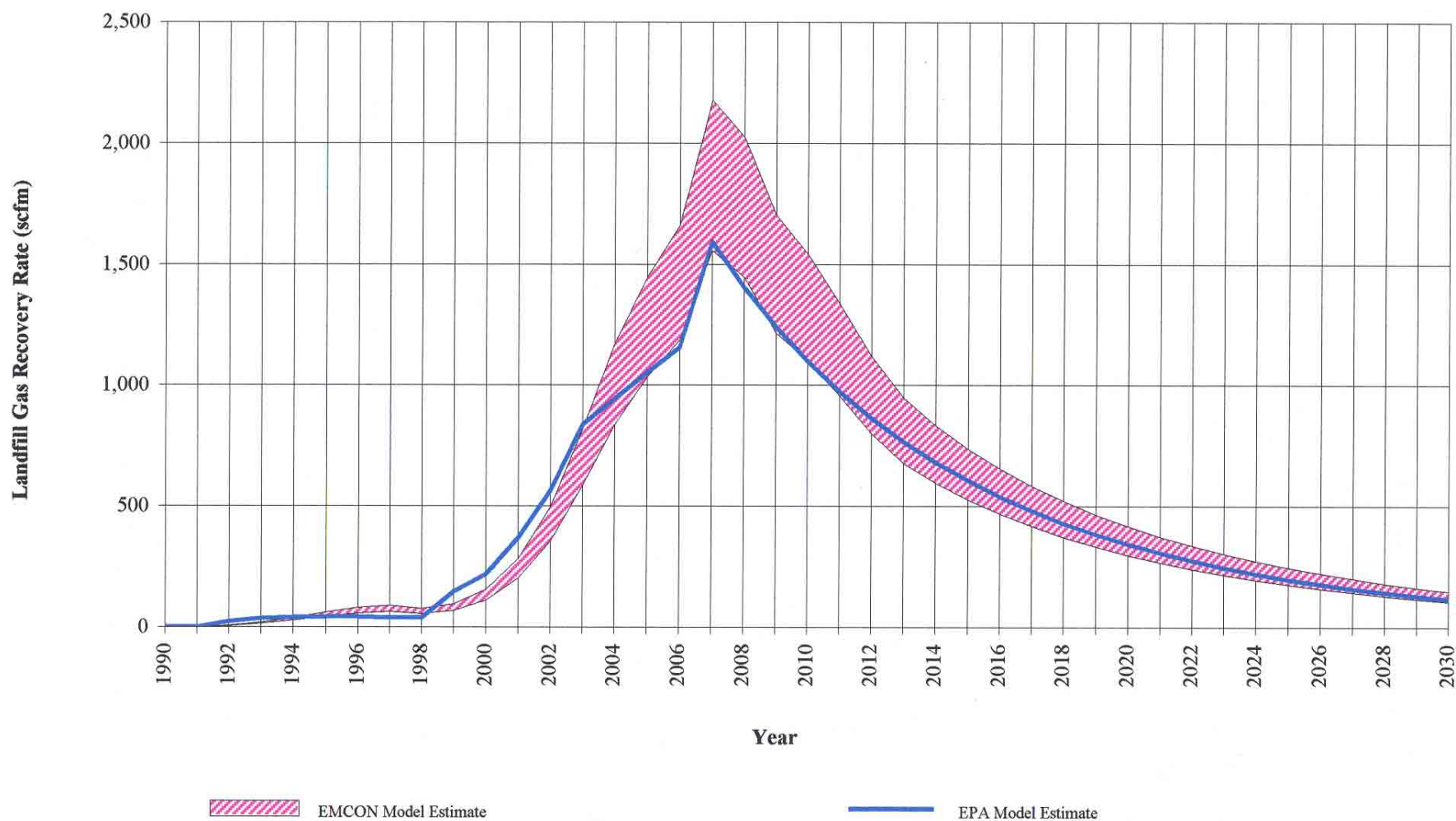


# Landfill Gas Generation

- Wells in Place – Yes, 15 (Fall 2002)
- Flare – Yes, portable utility flare @ 793 scfm
- 2004 Model Estimation – 850-1,200 scfm
- 2007 Model Estimation – 1,600-2,300 scfm
- NSPS Applicable? – Not currently
- Section 29 Credits – No



# Gas Model Results



# Analyses Completed



- Temporary LFG system installed
- Wellfield conceptual design
  - Full build-out
- Meetings with local potential end users
- Defined available grants and subsidies
- Feasibility study

# Potential End Users



- PCFAWC
  - The Authority uses 28,000 to 54,000 kWh per month
- Tilcon
  - Asphalt plant uses 10,800 to 14,400 therms/day
  - Electric usage up to 1,200,000 kWh per month
- Covanta
  - Potential use of up to 100% of LFG
- Greenhouse
  - Up to 10 therms/day/acre



# Electrical Generation Opportunities



- New Jersey Board of Public Utilities has potential grants for a percentage of plant capital
- Sell to local utility (Jersey Central/PJM)
  - Interested in discussing green power pricing
- Use 28,000 to 54,000 kWh per month on-site by PCFAWC
- Send electricity to Tilcon with no fee

# Contact Information



- John Carlton, Executive Director  
Pollution Control Financing Authority of Warren County  
Phone: 908-435-2174  
Email: [jcarlton@nac.net](mailto:jcarlton@nac.net)
- Mark Swyka, Project Manager  
EMCON/OWT, Inc.  
Phone: 201-512-5700  
Email: [Mark.Swyka@shawgrp.com](mailto:Mark.Swyka@shawgrp.com)